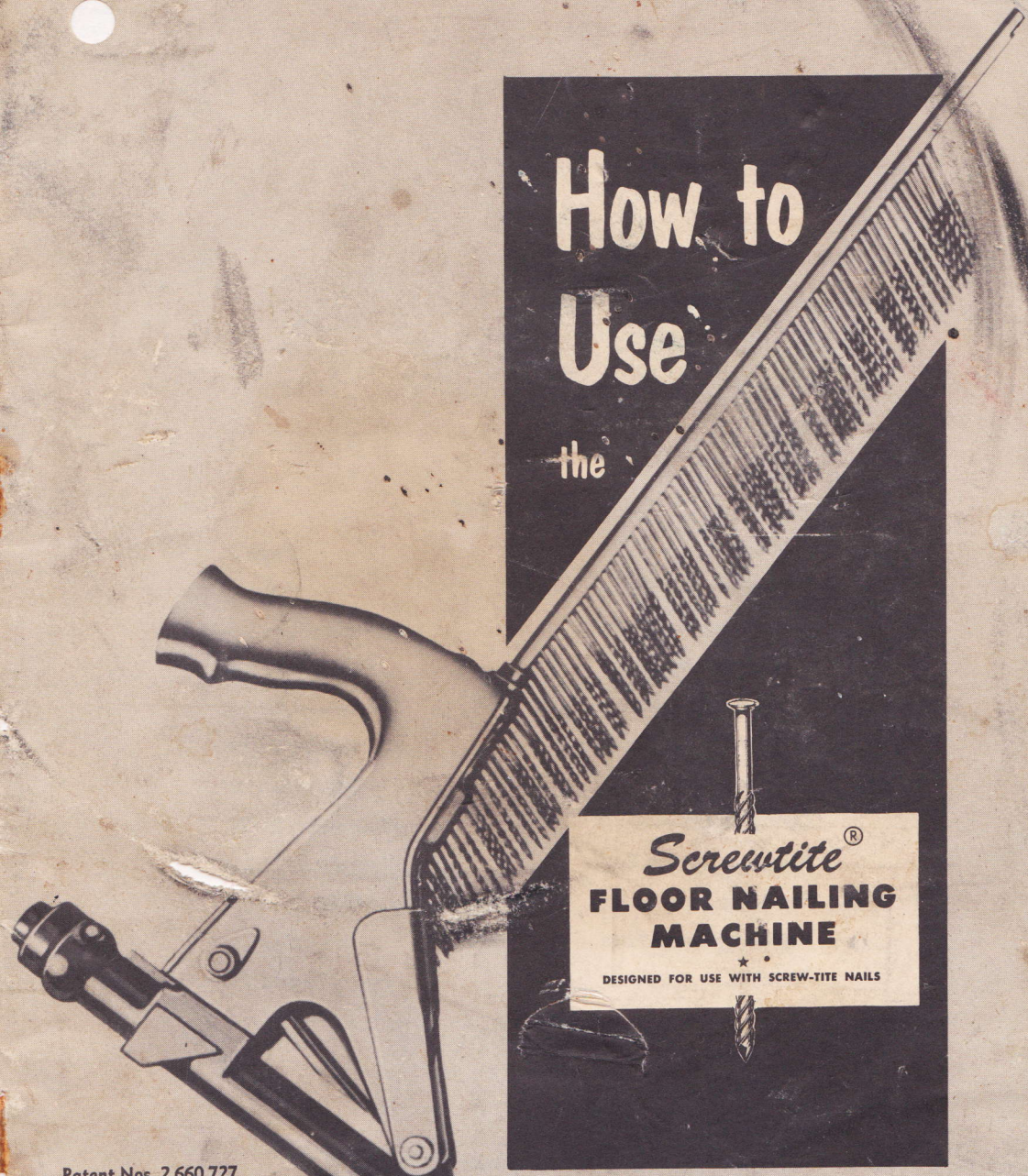
How to Use the



Patent Nos. 2,660,727 and 2,750,591. Other Patents Pending.

Manufactured only by
STONE MACHINE COMPANY
Division Independent Nail & Packing Co.

INDEPENDENT NAIL and PACKING CO.

The Stronghold Line®

BRIDGEWATER, MASSACHUSETTS, U.S.A.

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INDEPENDENT NAIL AND PACKING CO.
Bridgewater, Massachusetts

How to Use
THE
SCREWTITE® FLOOR NAILING MACHINE

With the SCREWTITE Floor Nailing Machine, you can lay tongue-and-groove floors better, faster and more uniformly than ever before—and have them ready for finish sanding in far less time.

Using the machine as shown on the following pages, the nail is driven and set at the proper angle, and the flooring is drawn up snugly against the previous strip, all in one simple, speedy operation. Moving the machine to position for the next nail automatically drops a nail into position for driving.

The SCREWTITE Floor Nailing Machine makes it impossible to bang edges, mash tongues or mar flooring while nailing. Thus sanding time is cut to a minimum. *It is the perfect method of laying pre-finished flooring.*

Used by Hundreds of Leading Flooring Contractors

The SCREWTITE Floor Nailing Machine is the first and best machine made for laying tongue-and-groove flooring. It was developed in close co-operation with flooring experts and contractors, and has been proved in practical day-after-day use on the job. It is designed to stand up under the demands of continued heavy-duty use on the largest flooring installations.

The pictures on the following pages show you—step by step—exactly how to use the SCREWTITE Floor Nailing Machine as experts use it. Study the pictures and read the accompanying text carefully before attempting to operate the machine.

Oiling the Machine

Keep the machine well lubricated. Oil working parts (plunger, inner cylinder and driving pin) with a *light* machine oil. If oil becomes gummy and machine tends to stick, flush with kerosene or carbon tetrachloride. *Do not use graphite for lubrication.*

USE ONLY WITH SCREW-TITE® FLOORING NAILS

The SCREWTITE Floor Nailing Machine is designed expressly for use with 6d (2″), 7d (2¼″) or 8d (2½″) SCREW-TITE Flooring Nails. Do not use with any other nails. They may clog and damage the machine.

For hardwood flooring, use only HARDENED SCREW-TITE Nails. They drive without bending, and hold better. Unhardened nails will bend and jam the machine. They should be used in softwoods only. **Be sure the nails used in this machine are SCREW-TITE Flooring Nails.**

CAUTION: Do not take machine apart.

The SCREWTITE Floor Nailing Machine, if properly used in accordance with the instructions in this booklet, is guaranteed against defective materials or workmanship for a period of 90 days. This warranty is void if machine has been altered or taken apart.

Do not attempt to make repairs or adjustments other than those covered in these instructions. If machine is damaged, or if it does not work properly, return it for repair to the dealer from whom purchased, or directly to the factory. Be sure your name and address are attached to the machine.

In any correspondence regarding your SCREWTITE Floor Nailing Machine *always* refer to the serial number in its entirety.

IMPORTANT!
Before Using Machine, See Pictures 12, 16 and 29

WARRANTY

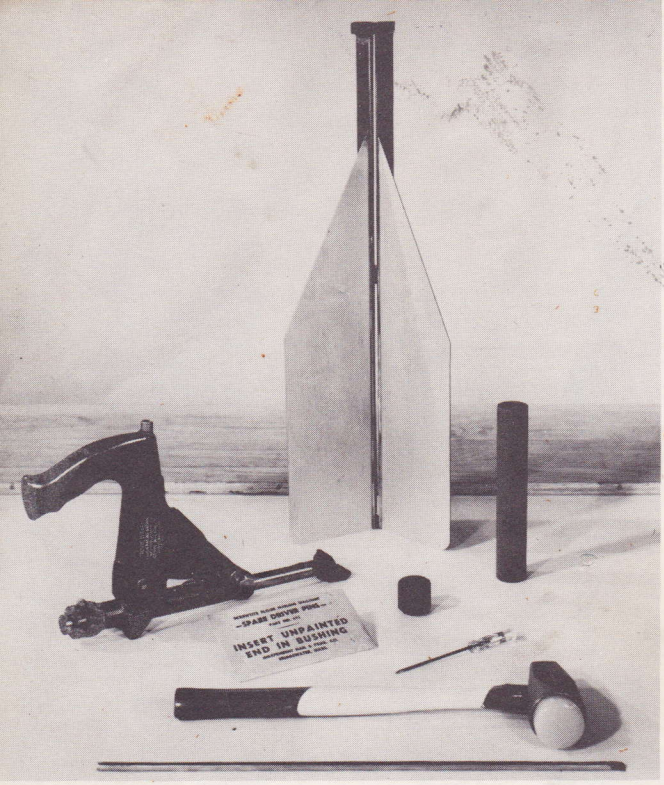
The SCREWTITE Floor Nailing Machine, if properly used in accordance with these instructions, is guaranteed against defective materials or workmanship for a period of 90 days. This warranty is void if machine has been altered or taken apart.

INDEPENDENT NAIL AND PACKING CO.
Bridgewater, Massachusetts

APPROVED
NEW YORK STATE B.S.A. APPROVAL NO. 4223



1 Here is the machine in operation. The angle at which the machine is held will vary somewhat with the individual operator, the stock being used, and conditions on the job. For best results hold machine at approximately 40 to 45 degrees as shown.



2

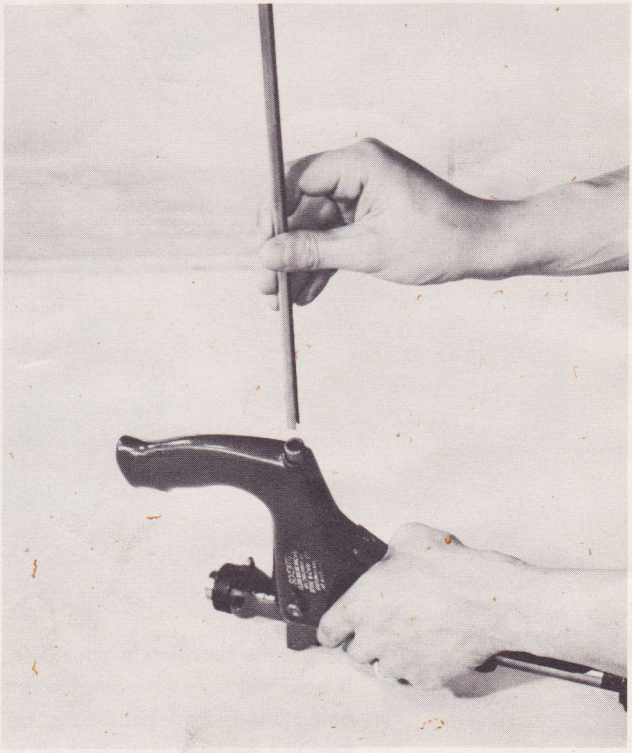
The package contains the following parts: The Floor Nailing Machine and plunger assembly; one mallet, one raceway, one loader, one screw driver, one pipe, one nut, and a package containing two spare driver pins.

The following steps show How to Assemble the Machine and prepare for laying floors

3

The square end of the raceway is inserted into the tube in the back of the handle so that the slots are correctly aligned.

If raceway fits too loosely, end may be spread slightly with two floor nails.

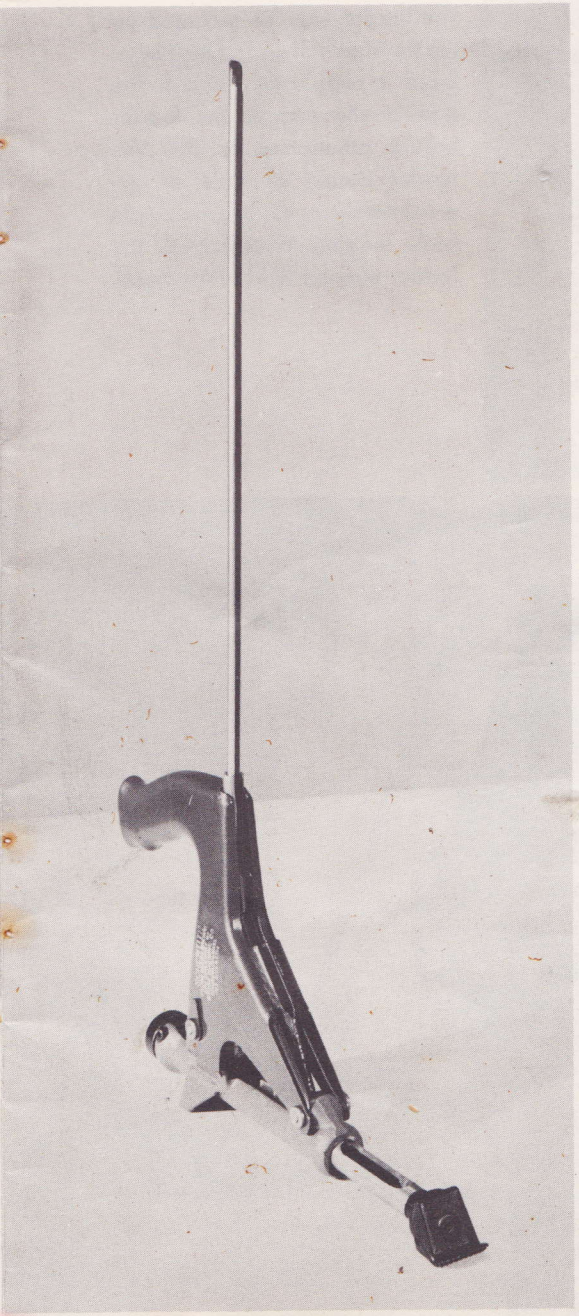


4

The latch nail, which may be inserted in the side of the barrel of the machine, *must* be removed so that the machine will operate.

Storing machine in latched position reduces spring life. The machine may be latched shut in order to go over a nail that operator has failed to set fully.





5

The machine and raceway assembly ready for loading.



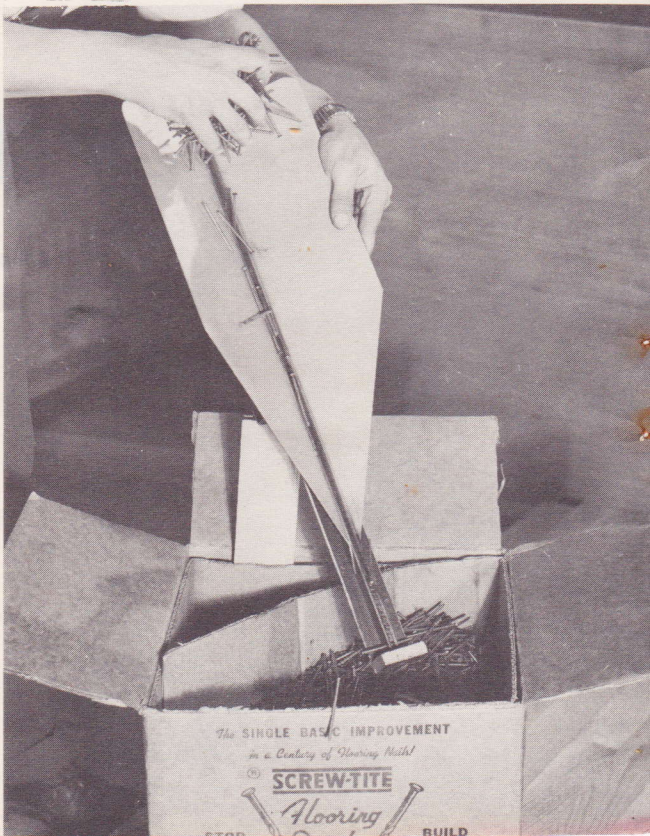
TO LOAD THE MACHINE

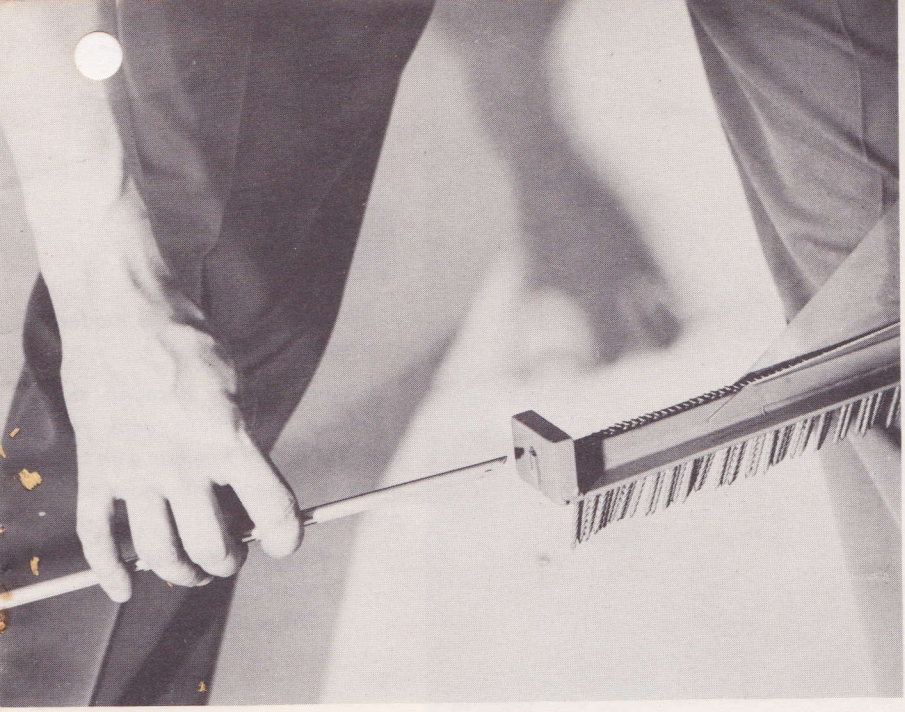
6

The loader may be mounted on the flooring nail carton as shown. Insert a stop nail through the hole in the end of the loader before attempting to fill. The loader should be held at approximately a 45 degree angle while loading. If preferred, the loader may be held in the hand.

7

Sprinkle, do not drop, a handful of nails into the loader as shown. When loader is approximately three-quarters full, lightly shake off those nails that are not in the channel, remove the stop nail, and you are now ready to transfer the nails into the floor nailing machine.





8 Insert the rounded end of the raceway into the loader as shown . . .

9 . . . and gently empty them into the machine.





10

The machine is now fully loaded and ready for use.

Proceed slowly through the following operations until you are thoroughly familiar with the machine. Speed will come with practice.

REMEMBER THIS:
Press down gently—
Snap up quickly

TO FEED AND DRIVE NAILS

11

Hook the machine under the tongue of the flooring being careful to hold the machine at approximately a 40 degree angle.





12

By pressing downward on the machine as shown a nail is automatically fed. **This operation *must not be forced.* <u>If cylinder does not depress fully, lift machine off floor and start over.</u>**

Failure to notice that nail did not feed, may result in serious breakage.



13

Press the machine **gently** downward to feed a nail as shown above. **CAUTION: Do not force.** *Allow time to feed all the way before striking plunger —otherwise a jam may result.*

REMEMBER THIS:
Press down gently—
Snap up quickly





14 Commence to drive the plunger with the nylon face of the mallet until the nail is
plunger seems hard to drive, there may be a jammed nail. STOP. If a nail is jamme



16

Raise the machine off the floor **with a snappy action** in order to cock it for the next nail. ***THIS IS VERY IMPORTANT.***

REMEMBER THIS:
Press down gently—
Snap up quickly



fully driven. **Never force machine.** If ed, remove as in Picture 18 and then proceed.



15 After the nail is fully driven one more blow tends to draw the flooring up tighter than it can possibly be drawn by hand.





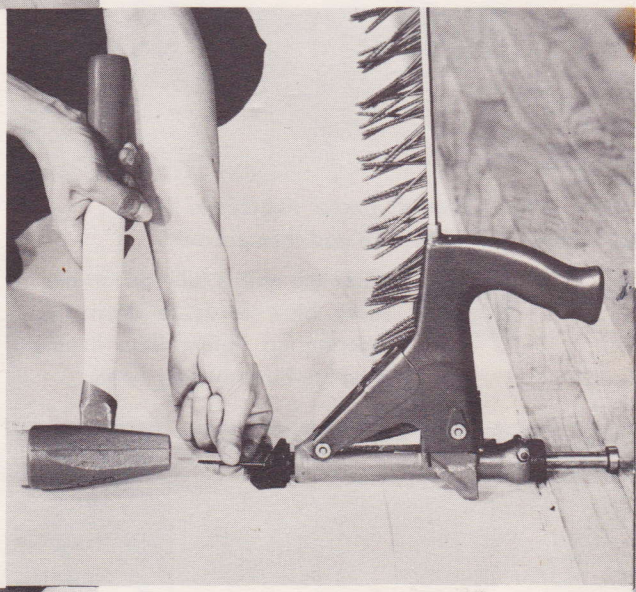


17

Failure to do this results in the cylinder not dropping the full distance, causing the jamming of a nail. Plunger will fail to stay up while feeding the next nail.

18

If a nail is jammed break the jam in the manner shown, by inserting a nail in the machine in the closed position, as shown in Picture 4; rest the machine up against the edge of the flooring, and drive second nail upward into the machine head first as shown, until the jam is broken. Remove the plunger and let the jammed nail drop out or dump it out.

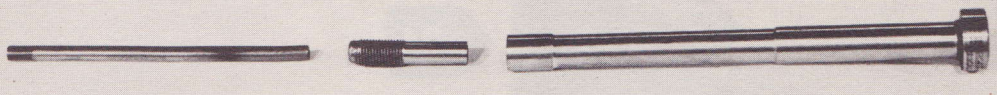




19

The plunger assembly is readily removed from the machine by simply lifting it upward.

THE PLUNGER ASSEMBLY



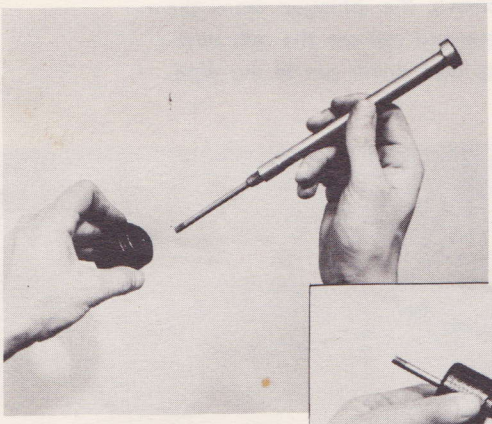
DRIVER PIN
613

PLUNGER BUSHING
612

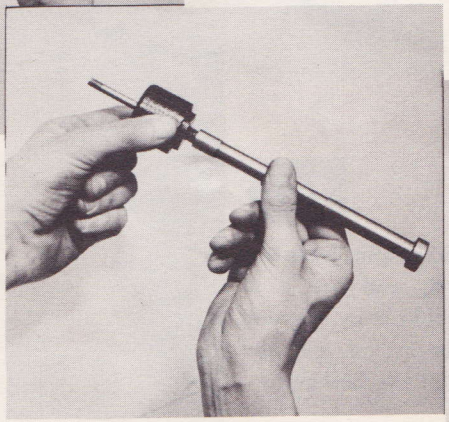
PLUNGER
611

20 The plunger assembly is composed of these parts: The driver pin, the plunger bushing, and the plunger. To change driver pin, these parts are separated in the following manner.

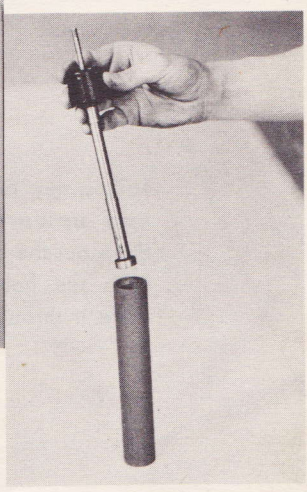
TO CHANGE DRIVER PIN



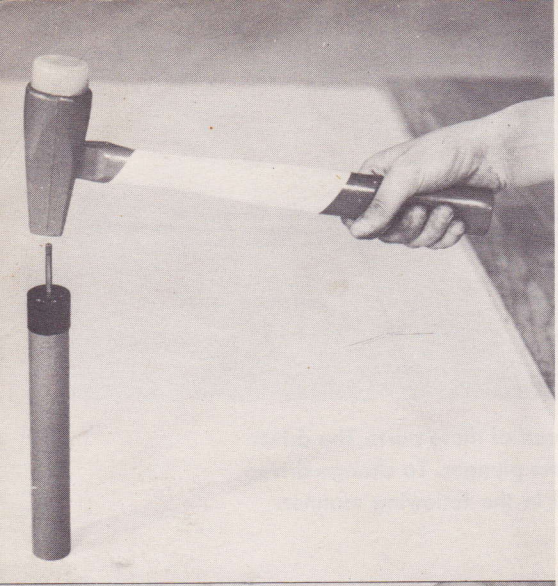
21 Insert the plunger in the nut [Part No. 814], as shown.



22 Screw the nut onto the bushing.

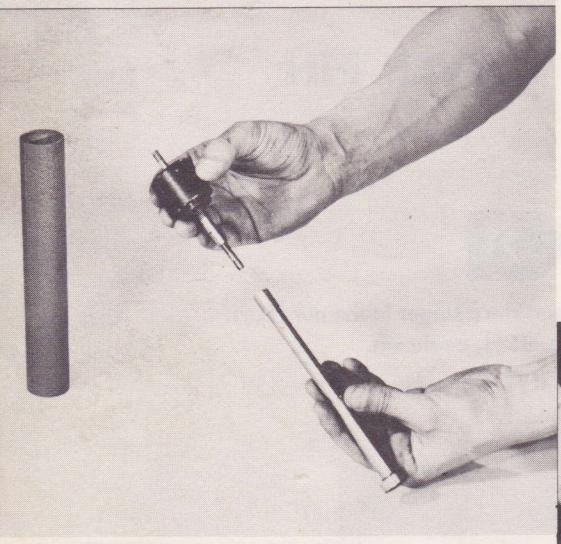


23 Insert this assembly into the pipe [Part No. 815], as shown.



24

Drive the end of the pin downward until the plunger is separated from the bushing.



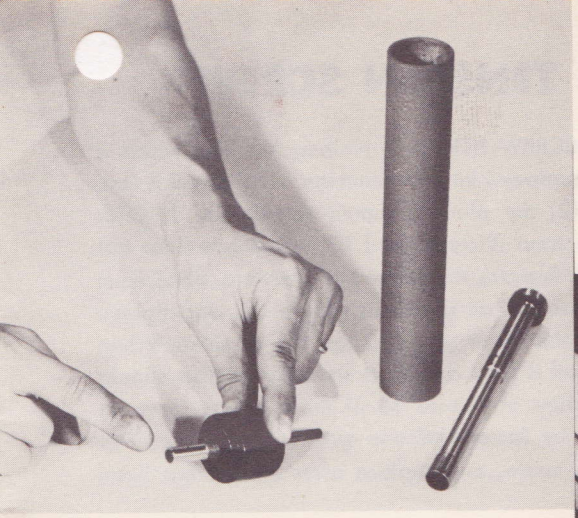
25

Remove the plunger from the pipe and replace the nut, bushing, and driver pin in the pipe.



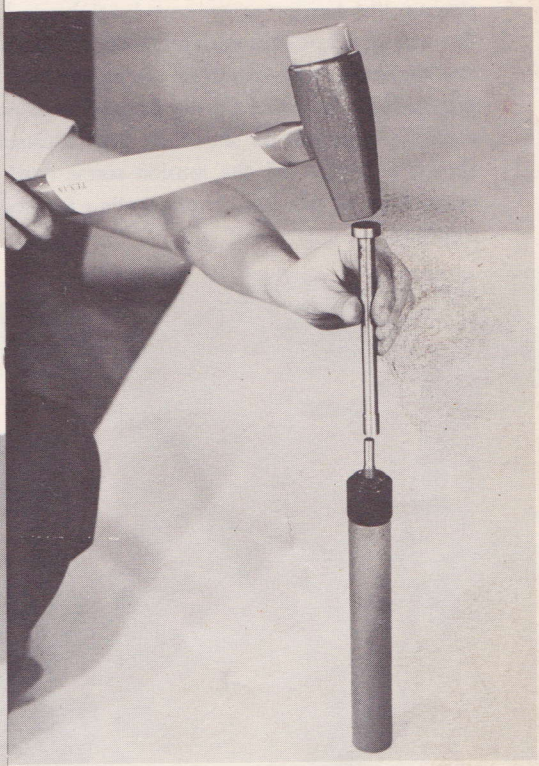
26

Take a new driver pin, **painted end upward,** and use it to drive out the old pin by inserting it in the hole in the nut and drive it through the bushing.



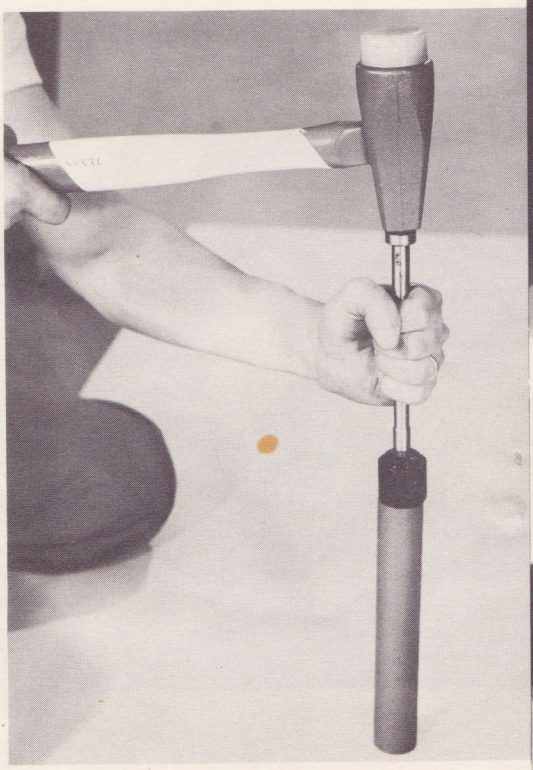
27

This will eject the old driver pin. Continue to drive the pin until the end of the pin is flush with the end of the bushing as shown.



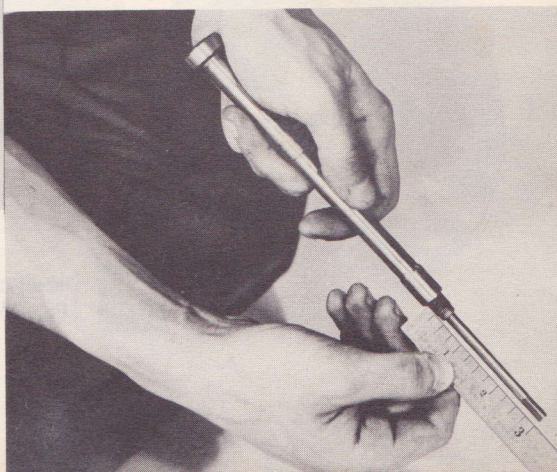
Insert the nut, bushing, and pin assembly in the pipe upside down and commence to drive the plunger onto the bushing.

28



29

Continue to drive the plunger until it is on as far as it will go. **If driver pin or bushing becomes loose while machine is in operation, it may be tightened as in Picture 29.**



30

The correct length of the pin and bushing assembly when fully inserted in the plunger should be three inches as shown. **Painted end of pin *must* be exposed.**

ADJUSTING THE TENSION SCREW

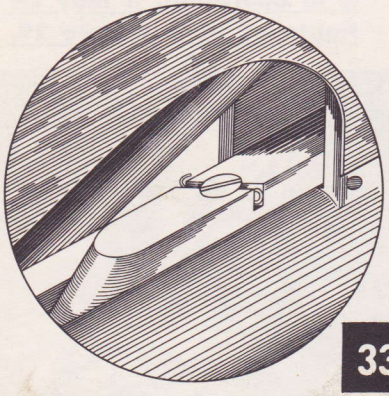
There is a tension adjustment in your SCREW-TITE Floor Nailing Machine which is designed to keep the plunger from falling downward into the machine while a nail is fed. When a nail is fed (as shown in Picture 12) the plunger should remain up. [NOTE: First be sure you are lifting machine with a snap (Picture 16).] If the plunger does not stay up, the tension screw must be tightened. Remove the cotter pin [Part No. 416] from the screw, insert screwdriver through the machine as shown in Picture 32, and tighten tension screw ***one-quarter turn.*** Replace the cotter pin, and test the machine. When the machine is raised off the floor after a nail is fully driven, ***a snappy action*** should cock the machine as shown in final illustration of Picture 16. If the machine jams, as shown in Picture 17, the tension screw must be ***loosened*** one quarter turn. Be sure to remove cotter pin before attempting to turn screw, and replace after tension has been adjusted.



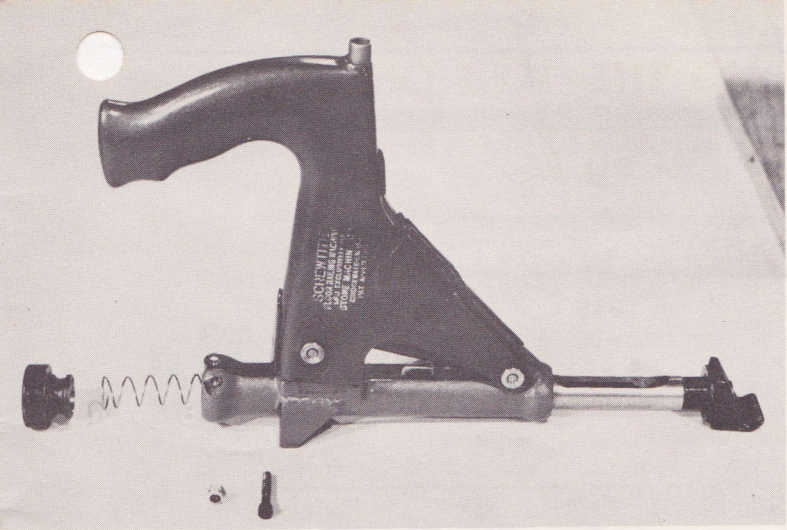
31 Tension screw (see detail in Picture 33 below) is directly beneath point of screwdriver.

32 To reach tension screw, insert screwdriver through machine as shown.





33 Detail of Tension Screw, [Part No. 415].



TO REPLACE MAIN-SPRING

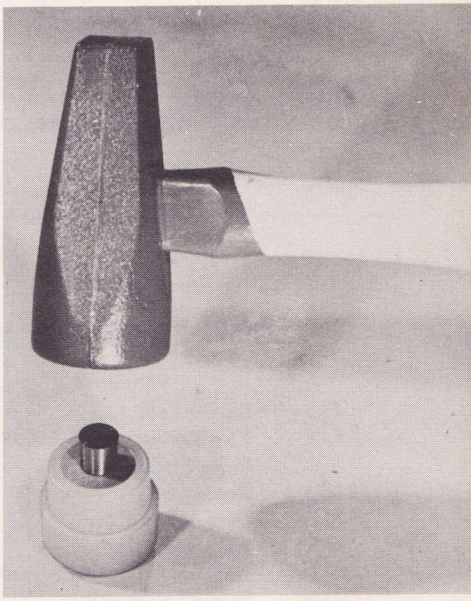
34

Picture 34 shows the assembly of the main spring. To replace main spring, remove Allen Screw from cap. Remove cap from the machine, and dump out the broken mainspring. Insert new mainspring (Part No. 326-C); replace the cap; replace the Allen Screw, and fasten into the Elastic Lock Nut. Screw should fit loosely. **Do not tighten, as breakage will result.** The machine is once again ready to use.

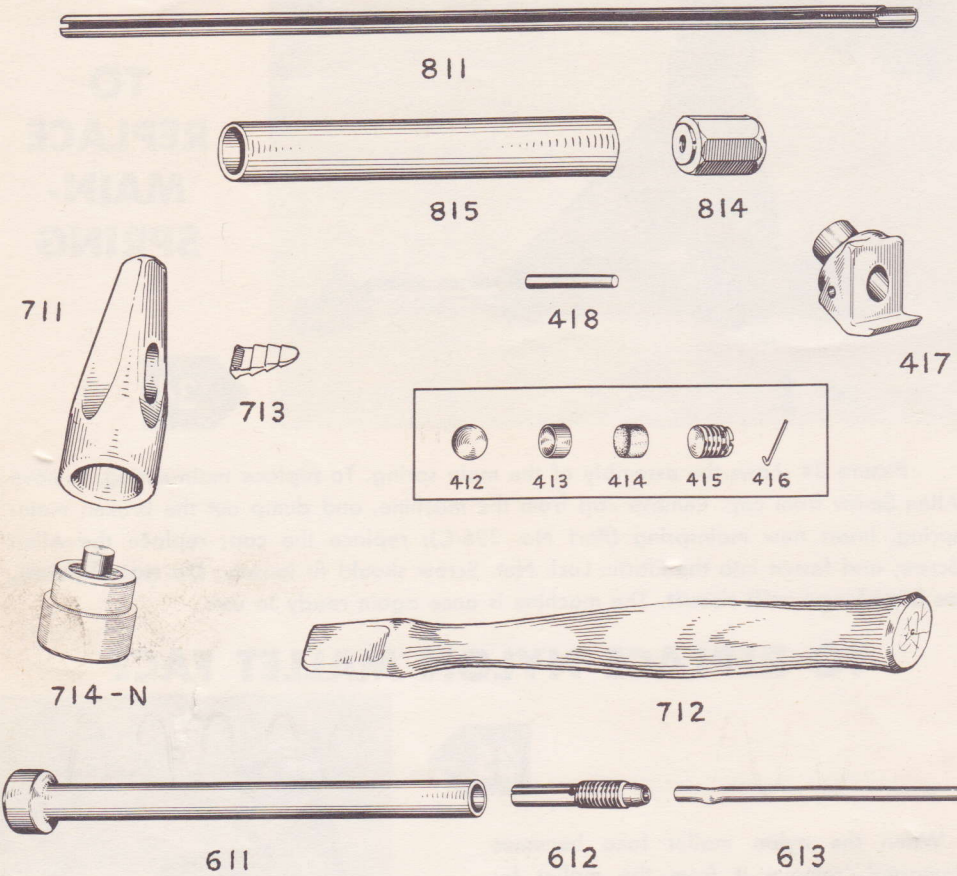
TO REPLACE NYLON MALLET FACE

35

When the nylon mallet face becomes damaged, remove it from the mallet by placing in a vise and twisting. If it cannot be readily removed by this method, it may be gouged out with a screw driver. Then place the new nylon mallet face on a hard surface, and drive the mallet over it, as shown in Picture 35. As the mallet is driven home, the steel plug will be driven into the mallet face, splitting the wooden section and causing it to hold tight in the mallet. Mallet face life may be lengthened if it is cooled by periodically placing mallet in a pail of water for a moment.



BEFORE YOU START,
REVIEW ITEMS 12 - 16 - 29



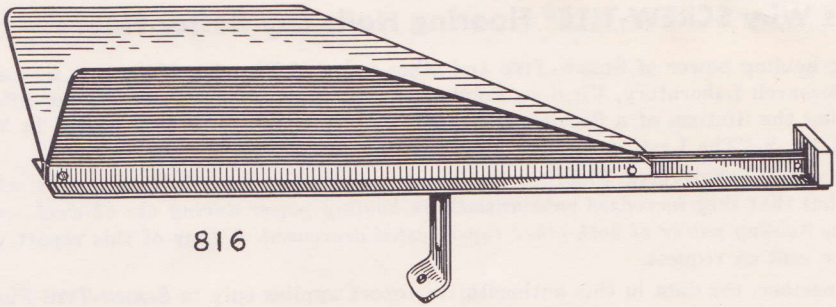
Accessories for Screwtite Floor Nailing Machine

Part No.	Description
116	Elastic Lock Nut
★117	Cap Screw
326	Main Spring
412	Detent Ball
413	Detent Ball Cup
414	Neoprene Spring
415	Tension Adjusting Screw
416	Screw Locking Pin
417	Foot
418	Foot Locking Pin
611	Plunger
612	Plunger Bushing

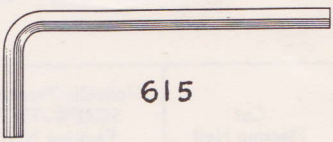
Part No.	Description
613	Driver Pin
614	Screwdriver
615	Allen Wrench
711	Mallet Head
712	Mallet Handle
713	Mallet Handle Wedge
714-N	Nylon Mallet Face
811	Raceway
814	*Nut
815	*Pipe
816	Loader

*For maintenance and disassembly of Parts Nos. 611-612-613

★ Please specify whether for Machine Model C or D.



816



615



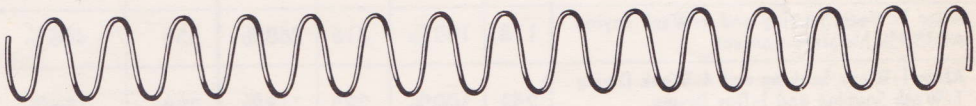
*117



116



614



326

How to Order

Order accessories from your distributor, giving Serial Number of machine with which they are to be used. Serial Number is stamped on barrel of machine, near the stand.

★ Please specify whether for Machine Model C or D.

Repair Service

Do not try to take the Screwtite Floor Nailing Machine apart. If it requires replacement of parts other than those shown above, return it for repair **with the plunger assembly** to the dealer from whom purchased, or directly to the factory. Be sure your name and address are attached to the machine.

Here's Why SCREW-TITE® Flooring Nails Lay Better Floors

The holding power of SCREW-TITE and other types of Flooring Nails was tested at Wood Research Laboratory, Virginia Polytechnic Institute, under laboratory conditions simulating the lifetime of a flooring installation. Here is test data as reported in VPI Bulletin No. 5, "The Lasting Efficiency of Flooring Nails."

Note that SCREW-TITE Flooring Nails not only had greater holding power when driven, but that they *increased substantially in holding power during the 52-week tests, while the holding power of both other types tested decreased.* A copy of this report will gladly be sent on request.

Remember, the data in this authoritative report applies only to SCREW-TITE Flooring Nails made exclusively by Independent Nail & Packing Company, and does not apply for any other type of nail. For your protection, always specify SCREW-TITE Flooring Nails *by name.*

Test Performance	Plain Shank Flooring Brad		Cut Flooring Nail		Helically Threaded SCREW-TITE Flooring Nail	
	Lbs.	%	Lbs.	%	Lbs.	%
Immediately after Driving At 16.1% Moisture Content	140	100%	389	278%	536	383%
After 1-Week Soaking and 1-Day Drying At 38.2% Moisture Content	125	100%	278	222%	386	309%
After 1-Week Soaking and 1-Week Drying At 23.1% Moisture Content	180	100%	303	168%	387	215%
After 1-Week Soaking and 4-Week Drying At 15.4% Moisture Content	118	100%	316	268%	550	466%
After 1-Week Soaking and 4-Week Drying 1-Week Soaking and 1-Day Drying At 35.3% Moisture Content	251	100%	295	118%	388	155%
After 1-Week Soaking and 4-Week Drying 1-Week Soaking and 1-Week Drying At 24.0% Moisture Content	256	100%	333	130%	447	175%
After 1-Week Soaking and 4-Week Drying 1-Week Soaking and 4-Week Drying At 16.4% Moisture Content	203	100%	413	203%	647	319%
After 1-Week Soaking and 4-Week Drying 1-Week Soaking and 4-Week Drying 1-Week Soaking and 1-Day Drying At 35.8% Moisture Content	300	100%	421	140%	486	162%
After 1-Week Soaking and 4-Week Drying 1-Week Soaking and 4-Week Drying 1-Week Soaking and 1-Week Drying At 21.8% Moisture Content	354	100%	439	124%	543	153%
After 1-Week Soaking and 4-Week Drying 1-Week Soaking and 4-Week Drying 1-Week Soaking and 4-Week Drying At 15.3% Moisture Content	251	100%	398	159%	689	275%
After 1-Week Soaking and 4-Week Drying 1-Week Soaking and 4-Week Drying 1-Week Soaking and 15-Week Drying At 11.4% Moisture Content	167	100%	178	107%	706	423%
After 1-Week Soaking and 4-Week Drying 1-Week Soaking and 4-Week Drying 1-Week Soaking and 41-Week Drying At 10.1% Moisture Content	136	100%	227	167%	911	670%

SCREW·TITE®
Flooring Nails
DRIVE LIKE A NAIL...HOLD LIKE A SCREW

In Homes, Apartment Houses, Schools
Factories, Gymnasiums, Skating Rinks
Bakeries, Bowling Alleys, Stores, Offices

SCREW·TITE® NAILS LAY BETTER FLOORS

—floors that can "take the traffic"
—that never loosen, buckle, squeak or become springy.

The scientifically-engineered spiral threads turn the SCREW-TITE Flooring Nail as you drive it, drawing finish flooring down to sub-floor with uniform pressure and minimum disturbance of wood fibres. Tongues do not split—finish flooring cannot rebound. The floor is down to stay down—permanently tight—with SCREW-TITE Flooring Nails.



WON'T BEND OR BREAK
For hardwood floors, SCREW-TITE Flooring Nails are made of special high-carbon steel—heat-treated to drive readily into the hardest woods. For softwoods, SCREW-TITE Flooring Nails can be furnished unhardened.

COST LESS TO USE!
SCREW-TITE Nails cost less to use than ordinary cut flooring nails because you get approximately twice as many to the pound. You save $2 to $3 on every 100 pounds you use. Switch to SCREW-TITE Flooring Nails—and start saving today!

COAST TO COAST and border to border—leading flooring contractors and builders standardize exclusively on SCREW-TITE Flooring Nails. They are used by the millions of pounds annually, and demand is constantly increasing.

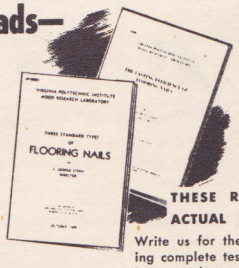
Experience proves that SCREW-TITE Nails lay better, smoother, tighter, longer-lasting floors. Their performance has been demonstrated over a period of more than 25 years—on thousands of floors, under widely varying conditions of climate and wear and traffic load, in hard woods and soft, in green lumber and dry.

Floors laid with SCREW-TITE Nails are down to *stay* down—*permanently tight and trouble free.*

Up to 6.7 times the holding power of flooring brads—up to 4 times that of cut flooring nails . . .

WE ASKED Wood Research Laboratory, Virginia Polytechnic Institute, to determine the holding power of SCREW-TITE Flooring Nails in comparison with other types of flooring nails, under conditions simulating the lifetime of a flooring installation. In a series of tests over a period of a year, withdrawal resistance of SCREW-TITE Flooring Nails was shown to be up to 6.7 times that of smooth flooring brads; up to 4 times that of cut flooring nails.

In every test, the withdrawal resistance of SCREW-TITE Nails was substantially greater than either of the other types tested. **In the 52-week period, withdrawal resistance of SCREW-TITE Flooring Nails—and *only* SCREW-TITE Flooring Nails—had *increased* an average of 70%; while that of flooring brads and cut flooring nails *decreased* approximately 2.9% and 40% respectively.**



THESE REPORTS AND ACTUAL SAMPLES FREE
Write us for these booklets giving complete test data and findings, and actual samples of SCREW-TITE Flooring Nails. They will be sent gladly at your request.

Always ask for **SCREW·TITE®** FLOORING NAILS *by name!*

Made only by
INDEPENDENT NAIL and PACKING CO.
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